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IN THE CLAIMS

1.-34. (canceled)

35. (currently amended) An implantable multi-chamber pacing system including ~~coronary sinus blood flow sensing capability for detecting an episode of myocardial ischemia, comprising:~~

an implantable cardiac rhythm management device including atrial sense means for sensing atrial signals from an atrium of a patient's heart and ventricular sense means for sensing ventricular signals from of a patient's heart right ventricle;

coronary vein sense means a coronary sinus lead adapted to be coupled to the cardiac rhythm management device disposed within a portion of a coronary sinus or great cardiac vein of the patient;

means carried on the coronary sinus lead for producing a signal representative of blood flow velocity through the coronary sinus for sensing electrical ventricular signals from the patient's left ventricle and for providing a myocardial ischemia signal representing a reduced blood flow rate through the patient's coronary sinus over a period of time, wherein the sense means comprises at least one electrode and a flow meter, respectively; and

signal processing means within the cardiac rhythm management device for analyzing the sensed ventricular signals, the sensed atrial signals and the myocardial ischemia coronary sinus blood flow velocity signal representing the reduced blood flow rate to detect a myocardial ischemia cardiac condition based at least in part upon the myocardial ischemia signal; and

means within the cardiac rhythm management device for delivering therapy to the patient's heart as a function of sensed electrical activity of a patient's heart and coronary sinus blood flow velocity.

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36. (canceled)

37. (currently amended) The pacing system of claim 35 wherein the analyzing means analyzes the coronary blood flow velocity signal to detect a reduced blood flow velocity indicative of a myocardial ischemia cardiac condition and wherein the therapy delivery means comprises ~~and further including dispensing means for dispensing a non-genetically active therapeutic drug when the a myocardial ischemia cardiac condition is detected.~~

38. (currently amended) The pacing system as described in claim 37, comprising programmer means for ~~remotely programming the signal processing means~~ implantable cardiac rhythm management device via a wireless telemetry link.

39. (currently amended) The pacing system as described in claim 37, wherein the implantable cardiac rhythm management device further comprising defibrillation means for generating and providing a defibrillation pulse to the patient's heart.

40. - 47. (canceled)

48. - 51. (canceled)